

PWHRP Savings Potential Preliminary Analysis
Single Family Residential (1-story & 2-story)
Pre-1978 Vintage, Gas Furnace Only
Title 24 Climate Zone 10

PWHRP Energy Efficiency Measures	DEER08 Base	Basic PWHRP	Advanced PWHRP	Percent Whole House Savings		
				1 & 2 Story Mix	All 1 Story	All 2 Story
Assuming Deer 2008 Base Case				Basic Prescriptive PHWRP (DEER08 Base)		
Total (Supply + Return) Duct Leakage	40%	12%	12%	11.5%	14.3%	8.4%
Clg R-Value	14.6	30	38			
Infil ACH	0.4	0.35	0.3			
Ltg KWh Reduced	0	460	460			
DHW Therms Saved via Added Pipe Insulation	0	2.5	2.5			
SEER	10	10	18	Advanced Prescriptive PHWRP (DEER08 Base)		
AFUE	78	78	90	16.1%	18.4%	13.5%
DHW EF	57	57	67	Premium Prescriptive PHWRP (DEER08 Base)		
Added Wall R-Value	0	0	5	20.7%	21.2%	20.2%
Window SC	1	1	0.5			
Window U-Value	1	1	0.5			
DHW Tank Wrap						
Cool Roof /Radiant Barrier / Attic Vent						
Crawl Space Floor Insulation						
Assuming Less Than Deer 2008 Base Case				Basic Prescriptive PHWRP (< DEER08 Base)		
Total (Supply + Return) Duct Leakage	40%	12%	12%	16.4%	22.2%	9.2%
Clg R-Value	4	30	38			
Infil ACH	0.4	0.35	0.3			
Ltg KWh Reduced	0	460	460			
DHW Therms Saved via Added Pipe Insulation	0	2.5	2.5			
SEER	8	8	18	Advanced Prescriptive PHWRP (< DEER08 Base)		
AFUE	75	75	90	21.9%	26.6%	16.2%
DHW EF	50	50	67	Premium Prescriptive PHWRP (< DEER08 Base)		
Added Wall R-Value	0	0	5	26.2%	29.2%	22.6%
Window SC	1	1	0.5			
Window U-Value	1	1	0.5			
DHW Tank Wrap						
Cool Roof /Radiant Barrier / Attic Vent						
Crawl Space Floor Insulation						

analysis conducted by M.S. Addison, revised 30 March 2010, using eQUEST v3.63 DEER 2008 models